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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,973	08/28/2003	Tien-Chun Tseng	WISP0022USA	1972
27765	7590	10/28/2004		EXAMINER
NAIPO (NORTH AMERICA INTERNATIONAL PATENT OFFICE) P.O. BOX 506 MERRIFIELD, VA 22116			DUONG, HUNG V	
			ART UNIT	PAPER NUMBER
			2835	

DATE MAILED: 10/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/604,973	TSENG ET AL.
	Examiner	Art Unit
	Hung v Duong	2835

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on ____.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-19 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1 and 6-19 is/are rejected.

7) Claim(s) 2-5 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ .

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____ .

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 6-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohnishi et al (US Pat. 6,525,932) and further in view of Le et al (US Pat. 6,728,115).

Regarding claims 1, 6-19, Ohnishi et al disclose a portable computer having peripheral devices, comprising: a housing 100 having a recess 60, a first connection interface 72 being installed in the recess 60; a power supply 203 installed in the housing for providing electrical power to the portable computer; a display panel 12 installed on the housing for displaying data; a keyboard 40 installed on the housing for inputting data; a pointing device control unit 50 installed on the housing for controlling the movement of a cursor displayed on the display panel; and a cassette 250 detachably installed in the recess 60, the cassette comprising : a case ; a second connection interface 74 installed on the case for electrically connecting to the first connection interface 72; an inherently motherboard connected to the second connection interface 74 wherein the cassette further comprises a hard disk installed in the case, a hard disk installed in the housing wherein the second connection interface on the case and the

first connection interface in the recess comprise a PCI interface, an IDE interface, and a USB interface wherein the second connection interface on the case and the first connection interface in the recess further comprise an audio connection port wherein the second connection interface on the case and the first connection interface in the recess further comprise a connection port for input/output devices wherein the second connection interface on the case and the first connection interface in the recess further comprise a DIV interface/VGA interface/ a connection port for power supply. The pointing device control unit comprises a touch pad, a track ball, or a joystick.

Ohnishi et al fail to disclose a central processing unit installed on the motherboard for processing data and programs; a chipset installed on the motherboard for communicating between the central processing unit and the peripheral devices of the portable computer; and a memory installed on the motherboard for storing data and programs. However, Le et al disclose a central processing unit installed on the motherboard for processing data and programs; a chipset installed on the motherboard for communicating between the central processing unit and the peripheral devices of the portable computer; and a memory installed on the motherboard for storing data and programs (see column 4, lines 1-20). Therefore, it would be obvious to one of ordinary skill to modify a central processing unit, a chipset and a memory installed on the motherboard of Le et al into Ohnishi et al 's cassette in order to assist in routing data between main memory and the system.

Allowable Subject Matter

3. Claims 2-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art fails to show that the chipset comprises a north bridge chip electrically connected to the central processing unit, and a south bridge chip electrically connected to the north bridge chip.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Flannery et al (US Pat. 6,456,491) teach modular floppy disk drive for internal and external use.

Cheng (US Pat. 6,469,900) teaches apparatus for locking and ejecting a module device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Duong whose telephone number is (571) 272-2041. The examiner can normally be reached on M-F from 8:30 to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn D. Feild can be reached on (571) 272-2092. The fax phone number for this Group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956

HVD

10/27/04



Hung Duong
Primary Examiner